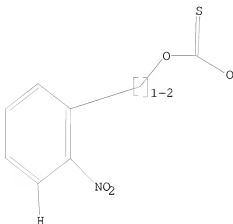


=>  
Uploading C:\Documents and Settings\jlaul\My Documents\10764989 - photolabile  
PG\thiocarbonate.str

L1 STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



G1 NO<sub>2</sub>, X, H  
G2 G1, CN, MeO, Ak  
G3 O, S

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam  
SAMPLE SEARCH INITIATED 15:29:42 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 4 TO 200  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full  
FULL SEARCH INITIATED 15:29:59 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 46 TO ITERATE

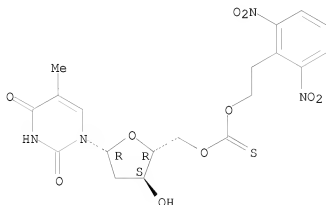
100.0% PROCESSED 46 ITERATIONS 3 ANSWERS  
SEARCH TIME: 00.00.01

L3 3 SEA SSS FUL L1

=> d 13 scan

L3 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Thymidine, 5'-[O-[2-(2,6-dinitrophenyl)ethyl] carbonothioate] (9CI)  
MF C19 H20 N4 O10 S

Absolute stereochemistry.

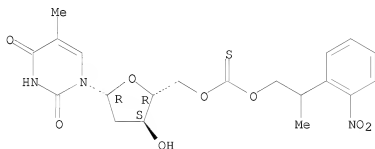


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Thymidine, 5'-[O-[2-(2-nitrophenyl)propyl] carbonothioate] (9CI)  
MF C20 H23 N3 O8 S

Absolute stereochemistry.

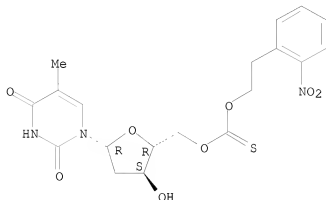


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Thymidine, 5'-[O-[2-(2-nitrophenyl)ethyl] carbonothioate] (9CI)  
MF C19 H21 N3 O8 S

Absolute stereochemistry.



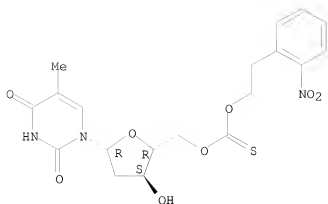
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d l3 1-  
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 325975-03-9 REGISTRY  
ED Entered STN: 07 Mar 2001  
CN Thymidine, 5'-[O-[2-(2-nitrophenyl)ethyl] carbonothioate] (9CI) (CA INDEX  
NAME)  
FS STEREOSEARCH  
MF C19 H21 N3 O8 S  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

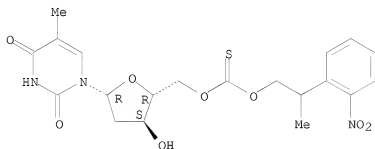


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 325975-02-8 REGISTRY  
ED Entered STN: 07 Mar 2001  
CN Thymidine, 5'-[O-[2-(2-nitrophenyl)propyl] carbonothioate] (9CI) (CA  
INDEX NAME)  
FS STEREOSEARCH  
MF C20 H23 N3 O8 S  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



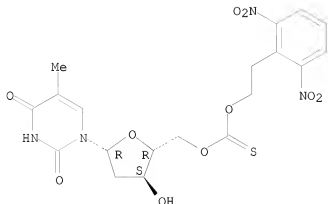
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 325975-00-6 REGISTRY  
ED Entered STN: 07 Mar 2001  
CN Thymidine, 5'-[O-[2-(2,6-dinitrophenyl)ethyl] carbonothioate] (9CI) (CA  
INDEX NAME)

FS STEREOSEARCH  
MF C19 H20 N4 O10 S  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
185.28	185.49

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:30:33 ON 29 APR 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 29 Apr 2008 VOL 148 ISS 18

FILE LAST UPDATED: 28 Apr 2008 (20080428/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```

=> s l3
L4          1 L3

=> d l4 scan

L4    1 ANSWERS    CAPLUS    COPYRIGHT 2008 ACS on STN
IC    ICM    C07H019-06
ICS   C07H019-10; C07H019-16
CC    33-10 (Carbohydrates)
      Section cross-reference(s): 25
TI    Preparation of nucleoside derivatives capable of undergoing UV-photolysis
      for oligonucleotide synthesis
ST    photolabile thiocarbonate protective group nucleoside prepn
IT    Photochemistry
      Photolysis
      Protective groups
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT    Nucleosides, preparation
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
          (Reactant or reagent)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT    Carbonates, preparation
      Group VIA element compounds
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
          (Reactant or reagent)
          (thiocarbonates; preparation of nucleoside derivs. capable of undergoing
          UV-photolysis for oligonucleotide synthesis)
IT    50-89-5, 2'-Deoxythymidine, reactions    463-71-8, Thiophosgene    606-20-2
      612-22-6    30525-89-4, Paraformaldehyde 325975-03-9
      RL: RCT (Reactant); RACT (Reactant or reagent)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT    64987-77-5P    77759-08-1P    325974-99-0P    325975-01-7P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
          (Reactant or reagent)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT    325975-00-6P 325975-02-8P
      RL: SPN (Synthetic preparation); PREP (Preparation)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)

```

ALL ANSWERS HAVE BEEN SCANNED

```

=> d his

```

(FILE 'HOME' ENTERED AT 15:28:31 ON 29 APR 2008)

FILE 'REGISTRY' ENTERED AT 15:28:46 ON 29 APR 2008

```

L1          STRUCTURE UPLOADED
L2          0 S L1 SSS SAM
L3          3 S L1 SSS FULL

```

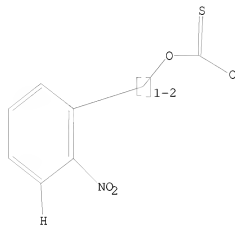
FILE 'CAPLUS' ENTERED AT 15:30:33 ON 29 APR 2008

L4 1 S L3

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 NO2,X,H

G2 G1,CN,MeO,Ak

G3 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 14 and py<=2002

22929871 PY<=2002

L5 1 L4 AND PY<=2002

=> d 15

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2001:137226 CAPLUS <<LOGINID::20080429>>

DN 134:178767

TI Preparation of nucleoside derivatives capable of undergoing UV-photolysis for oligonucleotide synthesis

IN Berlin, Kurt

PA Epigenomics A.-G., Germany

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012642	A2	20010222	WO 2000-DE2755	20000810 <---
	WO 2001012642	A3	20010607		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
 YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 DE 19938092 A1 20010222 DE 1999-19938092 19990812 <--  
 EP 1325016 A2 20030709 EP 2000-962214 20000810  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL  
 PRAI DE 1999-19938092 A 19990812  
 WO 2000-DE2755 W 20000810  
 OS MARPAT 134:178767

=> d his

(FILE 'HOME' ENTERED AT 15:28:31 ON 29 APR 2008)

FILE 'REGISTRY' ENTERED AT 15:28:46 ON 29 APR 2008

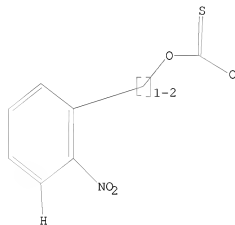
L1 STRUCTURE UPLOADED  
 L2 0 S L1 SSS SAM  
 L3 3 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:30:33 ON 29 APR 2008

L4 1 S L3  
 L5 1 S L4 AND PY<=2002

=> d l1

L1 HAS NO ANSWERS  
 L1 STR



G1 NO2,X,H  
 G2 G1,CN,MeO,Ak  
 G3 O,S

Structure attributes must be viewed using STN Express query preparation.

=> logoff hold



COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.77

190.26

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 15:32:21 ON 29 APR 2008